

#4

OIPE

RAW SEQUENCE LISTING

DATE: 09/06/2000

PATENT APPLICATION: US/09/645,706

TIME: 12:02:11

Input Set : A:\341-005US1.txt.txt

Output Set: N:\CRF3\09062000\I645706.raw

ENTERED

See P. 5

4 <110> APPLICANT: Wood, Keith V.
5 Gruber, Monika G.
6 Zhuang, Yao
8 <120> TITLE OF INVENTION: SYNTHETIC NUCLEIC ACID MOLECULE
9 COMPOSITIONS AND METHODS OF PREPARATION
11 <130> FILE REFERENCE: 341.005US1
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/645,706
C--> 13 <141> CURRENT FILING DATE: 2000-08-24
13 <160> NUMBER OF SEQ ID NOS: 302
15 <170> SOFTWARE: FastSEQ for Windows Version 4.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 1629
19 <212> TYPE: DNA
20 <213> ORGANISM: Pyrophorus plagiophthalmus
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24 ttaacagcag gagaaatgct cttcagggcc cttcgaaaac attctcattt accgcaggct 120
25 ttagtagatg tgtttggtga cgaatcgctt tcctataaag agttttttga agctacatgc 180
26 ctcttagcgc aaagtctcca caattgtgga tacaagatga atgatgtagt gtcgatctgc 240
27 gccgagaata ataaaagatt ttttattccc attattgcag cttgggtatat tggatgatt 300
28 gtagcacctg ttaatgaaag ttacatccca gatgaactct gtaaggctcat gggatatatcg 360
29 aaaccacaaa tagttttttg tacaagaagc attttaaata aggtattgga ggtacagagc 420
30 agaactaatt tcataaaaag gatcatcata cttgatactg tagaaaacat acacgggtgt 480
31 gaaagtcttc ccaattttat ttctcgttat tcggatggaa atattgcaa cttcaaacct 540
32 ttacattacg atcctggtga gcaagtggca gctatcttat gttcgtcagg cactactgga 600
33 ttaccgaaag gtgtaatgca aactcaccaa aatatttggt tccgacttat acatgcttta 660
34 gacccacagg caggaacgca acttattcct ggtgtgacag tcttagtata tctgcctttt 720
35 ttccatgctt ttgggttctc tataaacttg ggatacttca tgggtgggtct tctgtttatc 780
36 atgttaagac gatttgatca agaagcattt ctaaaagcta ttcaggatta tgaagttcga 840
37 agtgaatta acgttccagc aataatattg ttcttatcga aaagtccttt ggttgacaaa 900
38 tacgatttat caagtttaag ggaattgtgt tgcggtgcgg caccattagc aaaagaagtt 960
39 gctgaggttg cagtaaaacg attaaacttg ccagggaattc gctgtggatt tggtttgaca 1020
40 gaatctactt cagctaatat acacagtctt ggggatgaat ttaaatcagg atcacttgga 1080
41 agagttaact ctttaatggc agctaaaata gcagataggg aaactggtaa agcattggga 1140
42 ccaaatcaag ttggtgaatt atgcgttaaa ggtcccatgg tatcgaaagg ttacgtgaac 1200
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44 ggatactatg atgaggatga gcatttctat gtggtggacc gttacaagga attgattaaa 1320
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46 atcagagatg ttgctgtggt tggatttcct gatctagaag ctggagaact gccatctgcg 1440
47 tttgtggtta aacagcccg aaaggagatt acagctaaag aagtgtacga ttatcttgcc 1500
48 gagaggggtc cccatacaaa gtatttgcgt ggaggggttc gattcgttga tagcatacca 1560
49 aggaatgtta caggtaaaat tacaagaaag gaacttctga agcagttgct ggagaagagt 1620
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53 <211> LENGTH: 1626
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence

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Input Set : A:\341-005US1.txt.txt
 Output Set: N:\CRF3\09062000\I645706.raw

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58 <223> OTHER INFORMATION: Sequence of clone YG#81-6G01
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63 ttagtagatg tgggtggcga cgaatcgctt tcctataaag agttttttga agcgacagtc      180
64 ctccatagcg aaagtctcca caattgtgga tacaagatga atgatgtagt gtcgatctgc      240
65 gccgagaata atacaagatt ttttattccc gttattgcag cttgggtatat tggatatgatt      300
66 gtacgacctg ttaatgaaa gttacatccca gatgaactct gtaagggtgat gggatatatcg      360
67 aaaccacaaa tagtttttac gacaaagaac attttaaata aggtattgga ggtacagagc      420
68 agaactaatt tcataaaaag gatcatcata cttgatactg tagaaaacat acacgggtgtg      480
69 gaaagtcttc ccaattttat ttctcggtat tcggatggaa atattgccaa cttcaaacct      540
70 ttacatttcg atcctgttga gcaagtggca gctatcttat gttcgtcagg cactactgga      600
71 ttaccgaaag gtgtaatgca aactcaccaa aatatttggt tccgacttat acatgcttta      660
72 gaccccgagg caggaacgca acttattcct ggtgtgacag tcttagtata tctgcctttt      720
73 ttccatgctt ttgggttctc tataaccttg ggatacttca tgggtgggtct tctgtttatc      780
74 atgttcagac gatttgatca agaagcattt ctaaaagcta ttcaggatta tgaagttcga      840
75 agtgaatta acgttccatc agtaatatgt ttcttatcga aaagtccctt ggttgacaaa      900
76 tacgatttat caagtttaag ggaatttgtg tgcggtgcgg caccattagc aaaagaagtt      960
77 gctgagggtg cagcaaaacg attaaacttg ccaggaattc gctgtggatt tggtttgaca      1020
78 gaattctact cagctaatat acacagtcct agggatgaat ttaaatcagg atcacttgga      1080
79 agagttaact ctttaattgc agctaaaata gcagataggg aaactggtaa agcattggga      1140
80 ccaaatcaag ttggtgaatt atgcattaaa ggtcccatgg tatcgaaagg ttacgtgaac      1200
81 aatgtagaag ctaccaaaag agctattgat gatgatggtt ggcttcactc tggagacttt      1260
82 ggatactatg atgaggtatg gcattttctat gtggtggacc gttacaagga attgattaaa      1320
83 tataagggtc ctccaggtagc acctgcagaa ctagaagaga ttttattgaa aaatccatgt      1380
84 atcagagatg ttgctgttgt tggatttctt gatctagaag ctggagaact gccatctgcg      1440
85 tttgtgttta aacagcccg gaaaggagatt acagctaaag aagtgtacga ttatcttgcc      1500
86 gagagggtct cccatacaaa gtatttgcgt ggaggggttc gattcgttga tagcatacca      1560
87 aggaatgta caggtaaaat tacaagaaag gaacttctga agcagttgct ggagaaggcg      1620
88 ggaggt
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91 <211> LENGTH: 1626
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Sequence of a synthetic luciferase
98 <400> SEQUENCE: 3
99 atgatgaaac gcgaaaagaa cgtcatctac ggcccagagc ctctgcaccc attggaagac      60
100 ctgaccgccg gtgagatggt gttccgtgct ctgcgtaaac attctcactt gcctcaagcc      120
101 ctggtggatg tctgtggcga cgaaagcttg tcttataagg agtttttcga agctactgtc      180
102 ctgttggccc agtctctgca taattgcggt tacaaaaatga acgatgtggt cagcatttgt      240
103 gctgagaata acacccgctt ttcatccca gtgattgccg cttggtacat cggcatgatt      300
104 gtcgcccctg tgaatgaatc ttatatccca gacgagttgt gcaagggtcat gggatttagc      360
105 aaacctcaaa tctgttttac taccaagaac attctgaata aagtcttgga agtcagctct      420
106 cgtactaact tcatcaagcg cattatcatt ctggataccg tcgagaatat ccacggctgt      480
107 gaaagcttgc caaactttat ttctcgttat agcgacggta atatcgctaa cttcaagcct      540
108 ctgcattttg atccagtgga gcaagtcgcc gctattttgt gctctagcgg cactaccggt      600
109 ctgcctaaag gcgtgatgca gactcaccaa aatatctgtg tccgcttgat tcatgccctg      660

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110 gacccacgtg tgggtaccca gttgatccct ggcgtgactg tcctgggtgta cttgccattc 720
111 ttccacgcct tcgggttttc tattaccctg ggctatttca tggtcgggtt gcgcgtgac 780
112 atgtttcgto gcttcgatca agaagctttt ctgaaggcca ttcaggacta cgaggtccgt 840
113 agcgtgatca acgtcccttc tgtgattttg ttcctgagca aatctccatt ggtcgataag 900
114 tatgacctga gctcttttgc cgaactgtgc tgtggcgctg cccctttggc taaagagggtg 960
115 gccgaagtgc ctgccaaagc tctgaatttg ccaggatatc gctgcggctt tggctctgact 1020
116 gagagcaact ctgctaactc tcatagcttg cgtgatgaat tcaaatctgg cagcctgggt 1080
117 cgcgtgactc ctttgatggc cgctaagatc gccgaccgtg agaccggcaa agctctgggt 1140
118 ccaaatcaag tcggcgcaatt gtgtattaag ggtcctatgg tgtctaaagg ctacgtcaac 1200
119 aatgtggagg ccaactaagg agctatcgat gacgatggtt ggctgcacag cggcgacttt 1260
120 ggttattacg atgaggacga acatttctat gtcgtggatc gctacaaaaga gttgattaag 1320
121 tataaaggct ctcaggctgc ccagctgag ctggaagaga tcttgctgaa gaacccttgc 1380
122 attcgtgacg tggcgcgtgc ggggtatcca gatttggaag ctggcgagct gcctagcgcc 1440
123 ttgtgctgta aacaaccagg taaggaaatt accgctaaag aggtctacga ctatttgccc 1500
124 gaacgcgtgt ctcacactaa gtacctgcgt ggcggtgtcc gcttctgga tagcatccct 1560
125 cgcaatgta cggcaaaaat tactcgtaag gagttgctga aacagttgct ggaaaaggct 1620
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128 <210> SEQ ID NO: 4
129 <211> LENGTH: 1626
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Sequence of a synthetic luciferase
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138 ctgaccgctg gtgagatgtt gttccgtgct ctgcgtaaac attctcactt gcctcaagcc 120
139 ctgggtcgatg tcgtgggcga cgagagcttg tcttataaag aatttttcga agctactgtc 180
140 ctgttggtccc aatctctgca taattgcgtt tacaaaatga acgatgtggt cagcatttgt 240
141 gctgagaata acaccgctt ttcatccca gtgattgccc cttggtacat cggcatgatt 300
142 gtcgcccctg tgaatgaatc ttatatccca gacgagttgt gcaaggatcat ggggtattagc 360
143 aaacctcaaa tcgtgtttac taccagaac attctgaata aggtcttggg agtgacgtct 420
144 cgtactaact tcatcaagcg cattatcatt ctggataccg tcgagaatat ccacggctgt 480
145 gagagcttgc caaactttat ttctcgttat agcgcggta atatcgctaa cttcaagcct 540
146 ctgcattttg atccagtggg gcaagtcgcc gctattttgt gctctagcgg caccaccggt 600
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152 tatgacctga gcagcttgcg cgaactgtgc tgtggcgctg cccctttggc taaagagggtg 960
153 gccgaagtgc ctgccaaagc tctgaatttg ccaggatatc gctgcggctt tggctctgact 1020
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155 cgcgtgactc ctttgatggc cgctaagatc gccgaccgtg agaccggcaa agctctgggt 1140
156 ccaaatcaag tcggcgcaatt gtgtattaag ggtcctatgg tgtctaaagg ctacgtcaac 1200
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159 tataaaggct ctcaagtcgc ccagctgag ctggaagaaa tcttgctgaa gaacccttgc 1380
160 attcgtgacg tggcgcgtgc ggggtatcca gatttggaag ctggcgagct gcctagcgcc 1440
161 ttgtgctgta aacaaccagg caaggaaatt accgctaaag aggtctacga ctatttgccc 1500

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Input Set : A:\341-005US1.txt.txt
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163 cgcaatgtca ccggcaaaat tactcgtaag gagttgctga aacagttgct ggaaaaggct 1620
164 ggtggc 1626
166 <210> SEQ ID NO: 5
167 <211> LENGTH: 1626
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Sequence of a synthetic luciferase
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177 ctcggtggacg tcgtgggtga cgagagcctg tcttacaaaag aatttttcga agctactgtg 180
178 ctggtggccc aaagcctgca taattgtggt tacaaaatga acgatgtggt gagcatctgt 240
179 gctgagaata acactcgctt ttttatccct gtgatcgctg cttggtacat cggcatgatt 300
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182 cgtactaatt tcatacaacg cattattatt ctggataccg tcgaaaacat ccacggctgt 480
183 gagagcttgc ctaactttat ctctcgttac agcgatggta atatcgctaa tttcaagcca 540
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186 gaccctcggt tgggtactca attgatccct ggcgtagctg tgcgtggtga ttgaccttc 720
187 tttcacgcct ttggtttttc tatcaccctg ggctatttca tggctcgctt gcgtgtgatc 780
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189 tctgtgatca atgtcccatc tgtcattttg ttctgagca aatctcctt ggttgacaaag 900
190 tatgatctga gcagcttgcc tgaactgtgc tgtggcgctg ctcccttggc caaagaagtg 960
191 gccgaggtcg ctgctaagcg tctgaacctc cctggtatcc gctgcggtt tggtttgact 1020
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193 cgcgtgacct ctttgatggc tgcaaaagac gccgaccgtg agaccggcaa agccctgggc 1140
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198 attcgcgacg tggcgcgtgt gggatatcca gacttggaag ctggcgagtt gcctagcgcc 1440
199 tttgtggtga aacaacctgg caaggagatt actgctaagg aggtctacga ctatttgcc 1500
200 gagcgcgtgt ctcacactaa atatctcgct ggccggtgcc gcttcgtcga ttctatccct 1560
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205 <211> LENGTH: 1626
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial Sequence
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210 <223> OTHER INFORMATION: Sequence of a synthetic luciferase
212 <400> SEQUENCE: 6
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214 ctcaccgctg gtgagatgct ctccgtgca ctgcgtaaac atagtcacct ccctcaagct 120
215 ctcggtggacg tcgtgggtga cgagagcctc tcttacaaaag aatttttcga agctactgtg 180
216 ctggtggccc aaagcctcca taattgtgga tacaaaatga acgatgtggt gagcatttgt 240

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218 gtcgcccctg tgaatgaatc ttacatccca gatgagctgt gtaagggtat gggtagtagc 360
219 aaacctcaaa tcgtctttac taccaaaaat atcctgaata aggtcttgga agtccagtct 420
220 cgtactaact tcatacaacg catcattatt ctggataccg tcgaaaacat ccatggctgt 480
221 gagagcctgc ctaacttcat ctctcgttac agcgatggta atatcgctaa tttcaaacca 540
222 ctgcattttg atccagtcga gcaagtggcc gctattttgt gctcttcggg caccactggt 600
223 ttgcctaaag tggatcatga gactcaccag aatatctgtg tgcgtttgat ccacgctctc 660
224 gaccctcggt tgggtactca attgatccct ggctgactg tgcgtgtgta tctgcctttc 720
225 tttcacgctt ttggtttttc tattaccctg ggctatttca tggctgggct gcgtgtcctc 780
226 atgtttcgtc gcttcgacca agaagccttc ttgaaggcta ttcaagacta cgaggtgcgt 840
227 tctgtcatca atttccttcc agtcattttg ttcttgagca aatctccttt ggttgacaag 900
228 tatgatctga gcagcttgcg tgagctgtgc tgtggcgctg ctctttggc caaagaagtg 960
229 gccgaggtcg ctgctaagcg tctgaacctc cctggtagcc gctgcgggtt tggtttgact 1020
230 gagagcactt ctgctaacat ccatagcttg cgagacgagt ttaagtcctg tagcctgggt 1080
231 cgcgtagctc ctcttatggc tgcaaaagtc gccgacctg agaccggcaa agcactgggc 1140
232 ccaaatcaag tcggtgaatt gtgtattaa ggcctatgg tctctaaagg ctacgtgaac 1200
233 aatgtggagg ccaactaaag agccattgat gatgatggct ggctccatag cggcgacttc 1260
234 ggttactatg atgaggacga acacttctat gtggtcgatc gctacaaaga attgattaa 1320
235 tacaaggctc ctcaagtcgc ccagccgaa ctggaagaaa ttttgcgtga gaaccttgt 1380
236 atcccgacg tggcgcgtct gggtagccca gacttgaag ctggtgagtt gcctagcgcc 1440
237 tttgtgtgta aacaacctg aaaggagatc actgctaagg aggtctacga ctatttggcc 1500
238 gagcgctgtg ctcaaccaa atatctcgt ggcgcgctcc gcttcgtcga ttccatccca 1560
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240 ggcggc
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243 <211> LENGTH: 1626
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Sequence of a synthetic luciferase
250 <400> SEQUENCE: 7
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252 ctcacgcgtg gtgagatgct ctcccgagca ctgcgtaaac atagtccact cctcaagca 120
253 ctgcgtggacg tcgtgggaga cgagagcctc tctacaaaag aatttttcga agctactgtg 180
254 ctgttggccc aaagcctcca taattgtggg tacaaaatga acgatgtggt gagcatttgt 240
255 gctgagaata acactcgctt ctttatccct gtaatcgctg cttggtagat cggcattgatt 300
256 gtcgcccctg tgaatgaatc ttacatccca gatgagctgt gtaagggtat gggtagtagc 360
257 aaacctcaaa tcgtctttac taccaaaaat atcttgaata aggtcttgga agtccagtct 420
258 cgtactaact tcatacaacg catcattatt ctggataccg tcgaaaacat ccacggctgt 480
259 gagagcctcc ctaacttcat ctctcgttac agcgatggta atatcgctaa tttcaagccc 540
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261 ttgcctaaag gtgtcatgca gactcaccag aatatctgtg tgcgtttgat ccacgctctc 660
262 gaccctcggt tgggtactca attgatccct ggctgactg tgcgtgtgta tctgcctttc 720
263 tttcacgctt ttggtttctc tattaccctg ggctatttca tggctgggct gcgtgtcctc 780
264 atgtttcgtc gcttcgacca agaagccttc ttgaaggcta ttcaagacta cgaggtgcgt 840
265 tccgtgatca acgtcccttc agtcattttg ttcttgagca aatctccttt ggttgacaag 900
266 tatgatctga gcagcttgcg tgagctgtgc tgtggcgctg ctctttggc caaagaagtg 960
267 gccgaggtcg ctgctaagcg tctgaacctc cctggtagcc gctgcgggtt tggtttgact 1020
268 gagagcactt ctgctaacat ccatagcttg cgagacgagt ttaagtcctg tagcctgggt 1080

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← F.Y.I.

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY DATE: 09/06/2000
PATENT APPLICATION: US/09/645,706 TIME: 12:02:12

Input Set : A:\341-005US1.txt.txt
Output Set: N:\CRF3\09062000\I645706.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:4423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:228
L:4581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:242
L:4618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245